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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,557	10/714,557 11/14/2003		Martin Stahl	13913-173US1 / 2001P00015	1730
32864	7590	09/15/2006		EXAMINER	
FISH & RI PO BOX 10		SON, P.C.	HWANG, JOON H		
MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER
	,			2166	
			DATE MAILED: 09/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>			Application No.	Applicant(s)	pplicant(s)				
Office Action Summary			10/714,557	STAHL ET AL.	STAHL ET AL.				
			Examiner	Art Unit					
			Joon H. Hwang	2166					
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the cover sheet	with the correspondence a	address				
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DA of 37 CFR 1.136 nunication. atutory period wi will, by statute,	TE OF THIS COMMUI 6(a). In no event, however, may ill apply and will expire SIX (6) No cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	•				
Status									
1)⊠	Responsive to communication(s) file	ed on <i>14 No</i>	ovember 2003		•				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-22</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restrict	tion and/or	election requirement.						
Applicat	on Papers								
9)🖂	The specification is objected to by th	e Examiner							
10)⊠ The drawing(s) filed on <u>01 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including		•	-, ,	• •				
11)	The oath or declaration is objected to	by the Exa	aminer. Note the attach	ned Office Action or form F	PTO-152.				
Priority (ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
1) 🔯 Notic	e of References Cited (PTO-892)			w Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO/SB/08)	PTO-948)		lo(s)/Mail Date of Informal Patent Application					
	r No(s)/Mail Date <u>11/14/03</u> .		6) Other:						

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DETAILED ACTION

1. The claims 1-22 are pending.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - "source table 220", page 10, lines 19, 29, and 31 and page 11, line 1, should be "source table 230".

Appropriate correction is required.

Claim Objections

- 3. Claims 1, 2, 4, 10, 11, 13, 19, and 22 are objected to because of the following informalities:
 - "the condition" in 9th line of claim 1, 11th line of claim 10, 10th line of claim 19, and 10th line of claim 22 should be "a condition";
 - "the coding" in 1st line of claims 2 and 11 should be "a coding";
 - "the entry" in 1st line of claims 2 and 11 should be "the entries"; and
 - "the double-byte code" in 2nd line of claims 4 and 13 should be "the multi-byte code".

Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 10-21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. "An article of manufacture comprising a computer readable medium having computer readable program code embodied therein" in lines 1-2 of claim 10 is insufficient to render the claims **tangibly embodied** in a manner so as to be executable. Page 6, line 13, thru page 7, line 16, discloses the medium as including both storage medium type (i.e., memory) and transmission medium type (i.e., signal), both medium types having computer readable program code embodied therein. See MPEP 2106 (IV)(B)(2)(a). The same rationale applies to claims 11-18 and they are likewise rejected. "A computer program product" in 1st line of claim 19 is insufficient to render the claims **tangibly embodied** in a manner so as to be executable. See MPEP 2106 (IV)(B)(1)(a). The same rationale applies to claims 20-21 and they are likewise rejected.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1, 5-10, and 14-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffin et al. (U.S. Patent No. 6,006,216).

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With respect to claim 1, Griffin teaches migrating content from a source table in a source database to a target table in a target database, wherein the databases are physically different (i.e., migrating content from AdminDB to ReadDB, wherein AdminDB utilizes normalized schema and ReadDB utilizes unnormalized schema, and AdminDB and ReadDB reside on different platforms, fig. 2, lines 32-45 in col. 6, and lines 22-39 in col. 7). Griffin teaches storing entries corresponding to database instructions in at least one of the source table and the target table, with a business application consecutively sending database instructions to the source database before migrating, the business application consecutively sending database instructions to the target database after migrating, each entry in each table having a unique key, and the database instructions having action types (line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Griffin teaches storing representations, for at least one entry in the source table, of the action type and of the unique key in a log table under the condition that the action type coincides with a predetermined action type (i.e., generation of delta, line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Griffin teaches copying entries of the source table to the target table (line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Griffin teaches adjusting the entries in the target table that have keys represented in the log table according to the action type representation stored in the log table (i.e., entries in ReadDB table are copied and adjusted, line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14).

With respect to claim 5, Griffin teaches adjusting the entries is performed in a first adjustment period while the application is sending database instructions and in a second adjustment period while the application is not sending database instructions (line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 6, Griffin teaches the predetermined action types are selected from the group consisting of insert, delete, and update (line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 7, Griffin teaches the database instructions are SQL statements (lines 11-25 in col. 10).

With respect to claim 8, Griffin teaches adjusting the entries comprises adjusting a first portion of the source table with a first portion of the target table substantially in parallel with adjusting a second portion of the source table with a second portion of the target table (i.e., handling multiple transactions concurrently, lines 31-35 in col. 1 and line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 9, Griffin teaches copying entries comprises copying a first portion of the source table to a first portion of the target table substantially in parallel with copying a second portion of the source table to a second portion of the target table (i.e., handling multiple transactions concurrently, lines 31-35 in col. 1 and line 52 in col. 6 thru line 8 in col. 7).

The limitations of claims 10, 19, and 22 are rejected in the analysis of claim 1 above, and these claims are rejected on that basis.

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The limitations of claims 14 and 20 are rejected in the analysis of claim 5 above, and these claims are rejected on that basis.

The limitations of claim 15 are rejected in the analysis of claim 6 above, and the claim is rejected on that basis.

The limitations of claim 16 are rejected in the analysis of claim 7 above, and the claim is rejected on that basis.

The limitations of claims 17 and 21 are rejected in the analysis of claim 8 above, and these claims are rejected on that basis.

The limitations of claim 18 are rejected in the analysis of claim 9 above, and the claim is rejected on that basis.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 2-4 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. (U.S. Patent No. 6,006,216) in view of Nowlin, Jr. et al. (U.S. Patent No. 6,484,309).

With respect to claims 2-4, Griffin discloses the claimed subject matter as discussed above except converting the coding of the entry. However, Nowlin teaches converting the coding of data from ASCII-code to Unicode (lines 19-33 in col. 3 and

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lines 42-51 in col. 4) in order to transfer the data to a system that uses only Unicode strings which are 16 bits per character. Therefore, based on Griffin in view of Nowlin, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the teaching of Nowlin to the system of Griffin in order to transfer the data to a system that uses only Unicode strings which are 16 bits per character.

The limitations of claims 11-13 are rejected in the analysis of claims 2-4 above, and these claims are rejected on that basis.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joon H. Hwang whose telephone number is 571-272-4036. The examiner can normally be reached on 9:30-6:00(M~F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Joon Hwang

Patent Examiner

Technology Center 2100

9/13/06